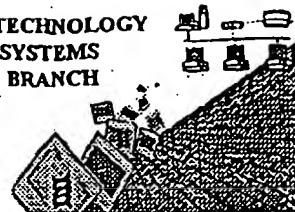


APPLICANT'S
COPY

BIOTECHNOLOGY
SYSTEMS
BRANCH



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/628,568

Source: 1/17/04

Date Processed by STIC: 11/24/04

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

~~TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER~~
~~VERSION 4.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND~~
~~TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:~~

<http://www.uspto.gov/web/offices/pac/checker/chknote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box-1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 06/05/04):
U.S. Patent and Trademark Office, 220 20th Street S., Customer Window, Mail Stop Sequence, Crystal Plaza Two, Lobby, Room 1B03, Arlington, VA 22202

Revised 05/17/04

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER:

09/628,568

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics
 Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2 Invalid Line Length The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3 Misaligned Amino
 Numbering The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4 Non-ASCII The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5 Variable Length Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 PatentIn 2.0
 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7 Skipped Sequences
 (OLD RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:
 (2) INFORMATION FOR SEQ ID NO:X (insert SEQ ID NO where "X" is shown)
 (i) SEQUENCE CHARACTERISTICS (Do not insert any subheadings under this heading)
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:X (insert SEQ ID NO where "X" is shown)
 This sequence is intentionally skipped

 Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8 Skipped Sequences
 (NEW RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence.
 <210> sequence id number
 <400> sequence id number
 000
- 9 Use of n's or Xaa's
 (NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
 Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
 In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 10 Invalid <213>
 Response Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence.
- 11 Use of <220>
 → Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses.
 Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
 (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12 PatentIn 2.0
 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13 Misuse of n/Xaa "n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid



IFW16

RAW SEQUENCE LISTING

DATE: 11/24/2004

PATENT APPLICATION: US/09/628,568

TIME: 11:03:00

Input Set : A:\Sequence Listing.txt

Output Set: N:\CRF4\11242004\I628568.raw

3 <110> APPLICANT: Presta, Leonard G.
 4 Snedecor, Bradley R.
 6 <120> TITLE OF INVENTION: ALTERED POLYPEPTIDES WITH INCREASED HALF-LIFE
 8 <130> FILE REFERENCE: 11669.161USC1
 10 <140> CURRENT APPLICATION NUMBER: US 09/628,568
 11 <141> CURRENT FILING DATE: 2000-07-31
 13 <150> PRIOR APPLICATION NUMBER: US 08/422,112
 14 <151> PRIOR FILING DATE: 1995-04-14
 16 <160> NUMBER OF SEQ ID NOS: 31
 18 <170> SOFTWARE: PatentIn version 3.3
 20 <210> SEQ ID NO: 1
 21 <211> LENGTH: 8
 22 <212> TYPE: PRT
 23 <213> ORGANISM: Artificial
 25 <220> FEATURE:
 26 <223> OTHER INFORMATION: Peptide
 28 <400> SEQUENCE: 1
 30 His Gln Asn Leu Ser Asp Gly Lys
 31 1 5
 34 <210> SEQ ID NO: 2
 35 <211> LENGTH: 8
 36 <212> TYPE: PRT
 37 <213> ORGANISM: Artificial
 39 <220> FEATURE:
 40 <223> OTHER INFORMATION: Peptide
 42 <400> SEQUENCE: 2
 44 His Gln Asn Ile Ser Asp Gly Lys
 45 1 5
 48 <210> SEQ ID NO: 3
 49 <211> LENGTH: 11
 50 <212> TYPE: PRT
 51 <213> ORGANISM: Artificial
 53 <220> FEATURE:
 54 <223> OTHER INFORMATION: Peptide
 56 <400> SEQUENCE: 3
 58 Pro Lys Asn Ser Ser Met Ile Ser Asn Thr Pro
 59 1 5 10
 62 <210> SEQ ID NO: 4
 63 <211> LENGTH: 98
 64 <212> TYPE: PRT
 65 <213> ORGANISM: Homo sapiens
 67 <400> SEQUENCE: 4
 69 Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys

pp 1, 4-5
 Does Not Comply
 Corrected Diskette Needed

insufficient explanation - give source
 of genetic material

(see item 11 on

Error Summary
 sheet)

same

RAW SEQUENCE LISTING

DATE: 11/24/2004

PATENT APPLICATION: US/09/628,568

TIME: 11:03:00

Input Set : A:\Sequence Listing.txt

Output Set: N:\CRF4\11242004\I628568.raw

```

70 1      5      10      15
73 Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr
74      20      25      30
77 Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
78      35      40      45
81 Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
82      50      55      60
85 Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr
86 65      70      75      80
89 Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys
90      85      90      95
93 Arg Val
97 <210> SEQ ID NO: 5
98 <211> LENGTH: 98
99 <212> TYPE: PRT
100 <213> ORGANISM: Homo sapiens
102 <400> SEQUENCE: 5
104 Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Cys Ser Arg
105 1      5      10      15
108 Ser Thr Ser Glu Ser Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr
109      20      25      30
112 Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
113      35      40      45
116 Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
117      50      55      60
120 Leu Ser Ser Val Val Thr Val Pro Ser Ser Asn Phe Gly Thr Gln Thr
121 65      70      75      80
124 Tyr Thr Cys Asn Val Asp His Lys Pro Ser Asn Thr Lys Val Asp Lys
125      85      90      95
128 Thr Val
132 <210> SEQ ID NO: 6
133 <211> LENGTH: 98
134 <212> TYPE: PRT
135 <213> ORGANISM: Homo sapiens
137 <400> SEQUENCE: 6
139 Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Cys Ser Arg
140 1      5      10      15
143 Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr
144      20      25      30
147 Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
148      35      40      45
151 Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
152      50      55      60
155 Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr
156 65      70      75      80
159 Tyr Thr Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys
160      85      90      95
163 Arg Val
167 <210> SEQ ID NO: 7

```

RAW SEQUENCE LISTING

DATE: 11/24/2004

PATENT APPLICATION: US/09/628,568

TIME: 11:03:00

Input Set : A:\Sequence Listing.txt

Output Set: N:\CRF4\11242004\I628568.raw

```

168 <211> LENGTH: 98
169 <212> TYPE: PRT
170 <213> ORGANISM: Homo sapiens
172 <400> SEQUENCE: 7
174 Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Cys Ser Arg
175 1 5 10 15
178 Ser Thr Ser Glu Ser Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr
179 20 25 30
182 Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
183 35 40 45
186 Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
187 50 55 60
190 Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Lys Thr
191 65 70 75 80
194 Tyr Thr Cys Asn Val Asp His Lys Pro Ser Asn Thr Lys Val Asp Lys
195 85 90 95
198 Arg Val
202 <210> SEQ ID NO: 8
203 <211> LENGTH: 107
204 <212> TYPE: PRT
205 <213> ORGANISM: Homo sapiens
207 <400> SEQUENCE: 8
209 Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu
210 1 5 10 15
213 Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe
214 20 25 30
217 Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln
218 35 40 45
221 Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser
222 50 55 60
225 Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu
226 65 70 75 80
229 Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
230 85 90 95
233 Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
234 100 105
237 <210> SEQ ID NO: 9
238 <211> LENGTH: 105
239 <212> TYPE: PRT
240 <213> ORGANISM: Homo sapiens
242 <400> SEQUENCE: 9
244 Gln Pro Lys Ala Ala Pro Ser Val Thr Leu Phe Pro Pro Ser Ser Glu
245 1 5 10 15
248 Glu Leu Gln Ala Asn Lys Ala Thr Leu Val Cys Leu Ile Ser Asp Phe
249 20 25 30
252 Tyr Pro Gly Ala Val Thr Val Ala Trp Lys Ala Asp Ser Ser Pro Val
253 35 40 45
256 Lys Ala Gly Val Glu Thr Thr Thr Pro Ser Lys Gln Ser Asn Asn Lys
257 50 55 60

```

RAW SEQUENCE LISTING

DATE: 11/24/2004

PATENT APPLICATION: US/09/628,568

TIME: 11:03:00

Input Set : A:\Sequence Listing.txt

Output Set: N:\CRF4\11242004\I628568.raw

260 Tyr Ala Ala Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp Lys Ser
 261 65 70 75 80
 264 His Arg Ser Tyr Ser Cys Gln Val Thr His Glu Gly Ser Thr Val Glu
 265 85 90 95
 268 Lys Thr Val Ala Pro Thr Glu Cys Ser
 269 100 105
 272 <210> SEQ ID NO: 10
 273 <211> LENGTH: 100
 274 <212> TYPE: PRT
 275 <213> ORGANISM: Artificial
 277 <220> FEATURE:
 278 <223> OTHER INFORMATION: Fab vlb variant
 280 <400> SEQUENCE: 10
 282 Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Pro Lys
 283 1 5 10 15
 286 Asn Ser Ser Met Ile Ser Asn Thr Pro Ala Leu Gly Cys Leu Val Lys
 287 20 25 30
 290 Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu
 291 35 40 45
 294 Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu
 295 50 55 60
 298 Tyr Ser Leu Ser Ser Val Val Thr Val Pro His Gln Ser Leu Gly Thr
 299 65 70 75 80
 302 Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val
 303 85 90 95
 306 Asp Lys Arg Val
 307 100
 310 <210> SEQ ID NO: 11
 311 <211> LENGTH: 7
 312 <212> TYPE: PRT
 313 <213> ORGANISM: Artificial
 315 <220> FEATURE:
 316 <223> OTHER INFORMATION: Peptide
 318 <400> SEQUENCE: 11
 320 His Gln Ser Leu Gly Thr Gln
 321 1 5
 324 <210> SEQ ID NO: 12
 325 <211> LENGTH: 29
 326 <212> TYPE: DNA
 327 <213> ORGANISM: Artificial
 329 <220> FEATURE:
 330 <223> OTHER INFORMATION: Oligonucleotide
 332 <400> SEQUENCE: 12
 333 .gtgaccgtgc ctcaccagag cttgggcac
 336 <210> SEQ ID NO: 13
 337 <211> LENGTH: 53
 338 <212> TYPE: DNA
 339 <213> ORGANISM: Artificial
 341 <220> FEATURE:

*- in other words, the source of
 genetic material
 is antibody
 from what species?*

29

RAW SEQUENCE LISTING

DATE: 11/24/2004

PATENT APPLICATION: US/09/628,568

TIME: 11:03:00

Input Set : A:\Sequence Listing.txt

Output Set: N:\CRF4\11242004\I628568.raw

342 <223> OTHER INFORMATION: Oligonucleotide
 344 <400> SEQUENCE: 13
 345 tggcaccctc ccctaagaac tcgagcatga tcagcaacac accggccctg ggc 53
 348 <210> SEQ ID NO: 14
 349 <211> LENGTH: 11
 350 <212> TYPE: PRT
 351 <213> ORGANISM: Artificial
 353 <220> FEATURE:
 354 <223> OTHER INFORMATION: Peptide
 356 <400> SEQUENCE: 14
 358 Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala
 359 1 5 10
 362 <210> SEQ ID NO: 15
 363 <211> LENGTH: 13
 364 <212> TYPE: PRT
 365 <213> ORGANISM: Artificial
 367 <220> FEATURE:
 368 <223> OTHER INFORMATION: Peptide
 370 <400> SEQUENCE: 15
 372 Ser Pro Lys Asn Ser Ser Met Ile Ser Asn Thr Pro Ala
 373 1 5 10
 376 <210> SEQ ID NO: 16
 377 <211> LENGTH: 34
 378 <212> TYPE: DNA
 379 <213> ORGANISM: Artificial
 381 <220> FEATURE:
 382 <223> OTHER INFORMATION: Oligonucleotide
 384 <400> SEQUENCE: 16
 385 tggcaccctc caaatcgagc atcacagcgg ccct 34
 388 <210> SEQ ID NO: 17
 389 <211> LENGTH: 9
 390 <212> TYPE: PRT
 391 <213> ORGANISM: Artificial
 393 <220> FEATURE:
 394 <223> OTHER INFORMATION: Peptide
 396 <400> SEQUENCE: 17
 398 Ser Ser Lys Ser Thr Ser Gly Gly Thr
 399 1 5
 402 <210> SEQ ID NO: 18
 403 <211> LENGTH: 6
 404 <212> TYPE: PRT
 405 <213> ORGANISM: Artificial
 407 <220> FEATURE:
 408 <223> OTHER INFORMATION: Peptide
 410 <400> SEQUENCE: 18
 412 Ser Lys Ser Ser Ile Thr
 413 1 5
 416 <210> SEQ ID NO: 19
 417 <211> LENGTH: 44

*Please correct this type of
error in subsequent sequences.*

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 11/24/2004
PATENT APPLICATION: US/09/628,568 TIME: 11:03:01

Input Set : A:\Sequence Listing.txt
Output Set: N:\CRF4\11242004\I628568.raw

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/628,568

DATE: 11/24/2004

TIME: 11:03:01

Input Set : A:\Sequence Listing.txt

Output Set: N:\CRF4\11242004\I628568.raw